

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P476751

Luminaire Tested: **IFLD-S-SA2E-830-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476751  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-830-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

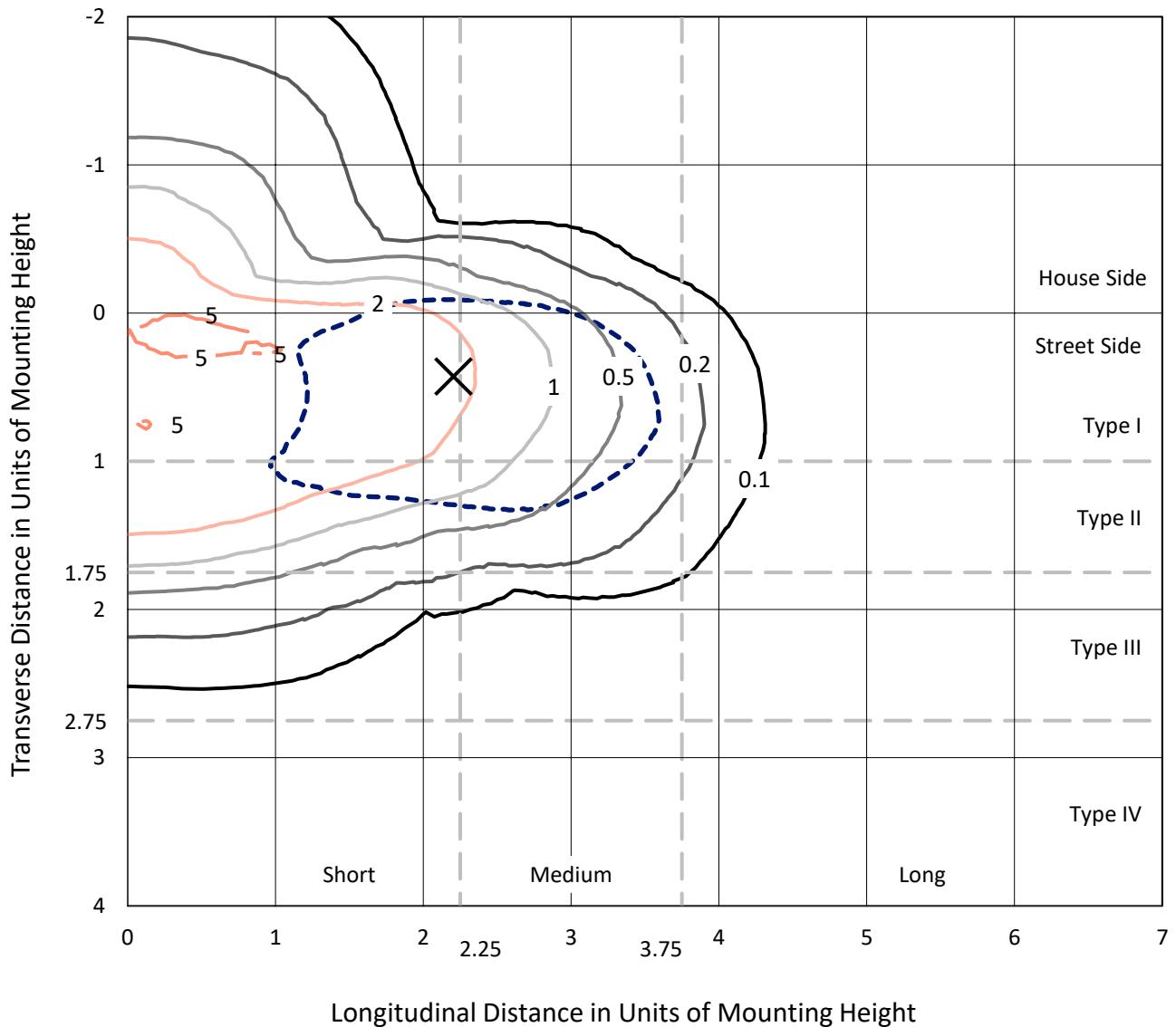
Lumens per Lamp: N/A  
Luminaire Lumens: 14364.4 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

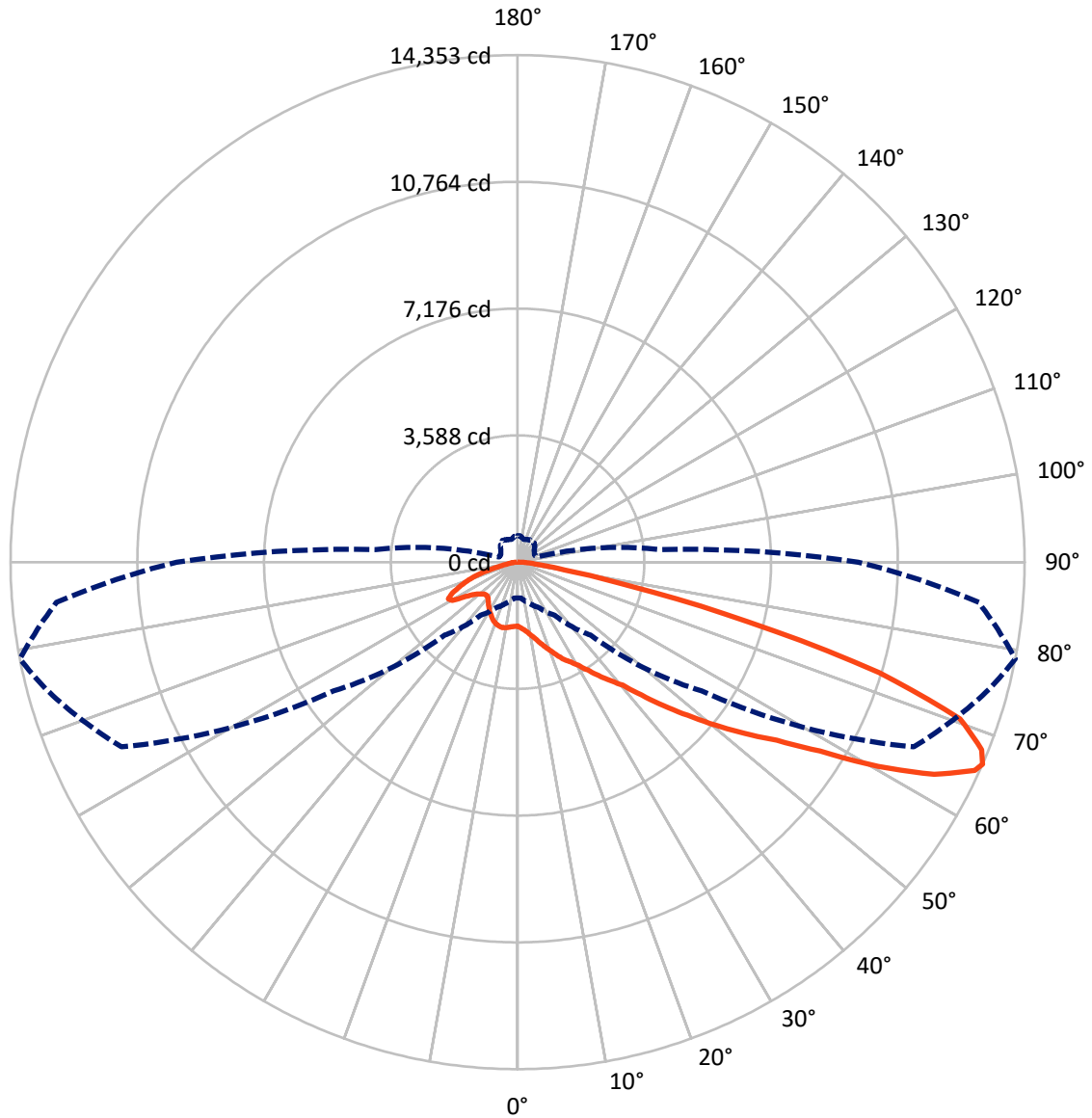
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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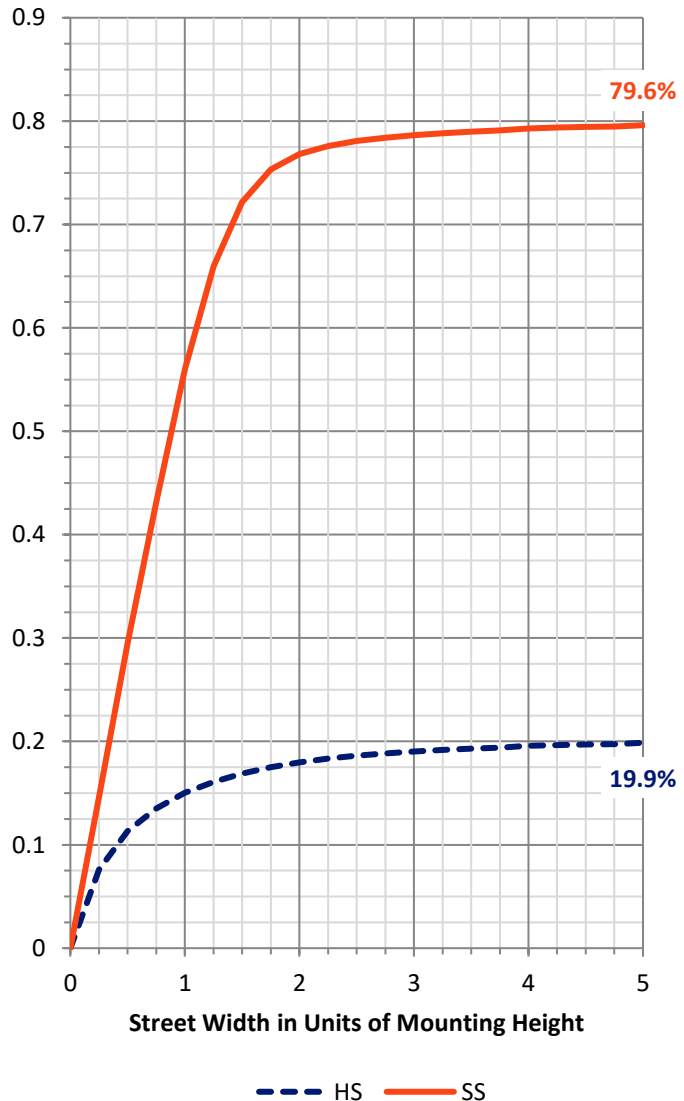
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2900.7	0.0	2900.7
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	11463.7	0.0	11463.7
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	14364.4	0.0	14364.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.4	1.2
10°-20°	550.7	3.8
20°-30°	945.4	6.6
30°-40°	1460.4	10.2
40°-50°	2339.2	16.3
50°-60°	3492.6	24.3
60°-70°	3588.6	25.0
70°-80°	1590.8	11.1
80°-90°	218.3	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14364.4	100.0
0°-180°	14364.4	100.0

**Coefficient of Utilization**



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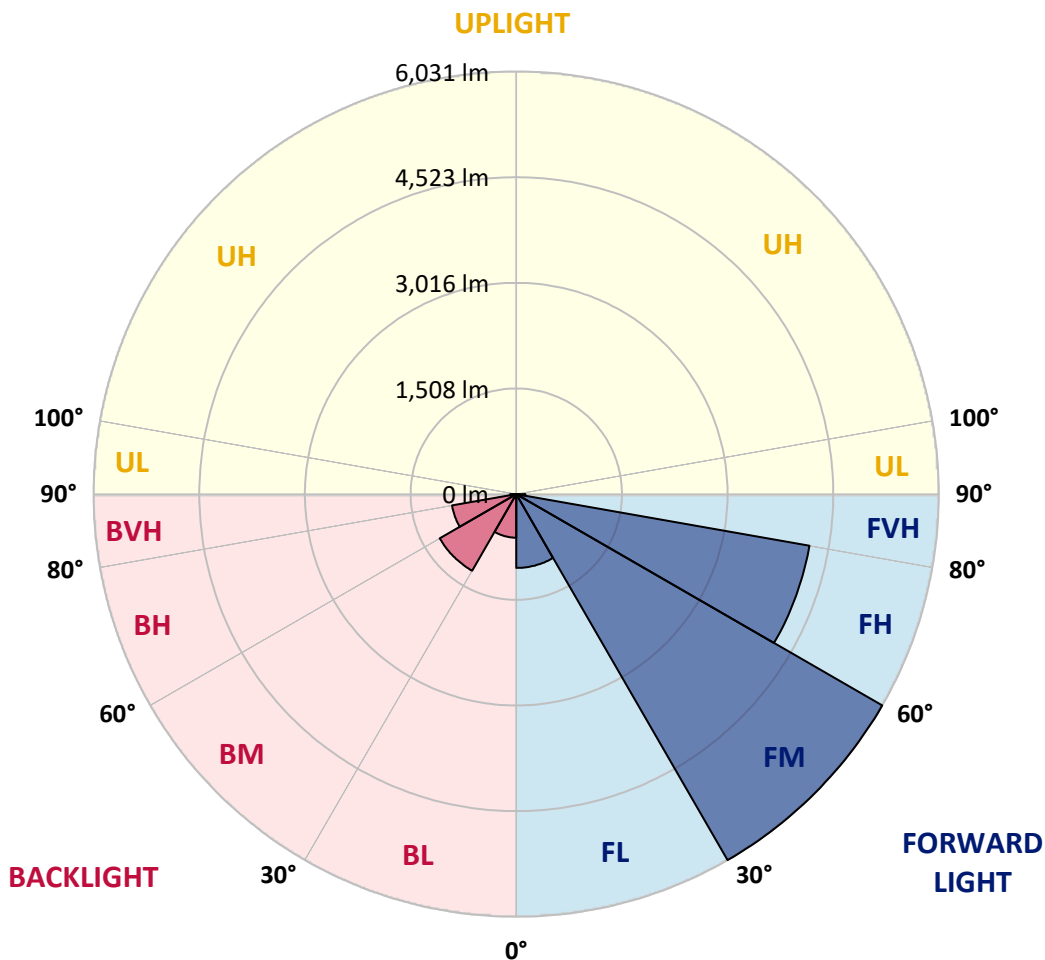
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.0	7.3			
FM (30°-60°)	6031.1	42.0			
FH (60°-80°)	4248.7	29.6			G2/5000
FVH (80°-90°)	130.9	0.9			G2/225
BL (0°-30°)	621.5	4.3	B2/1000		
BM (30°-60°)	1261.1	8.8	B2/2500		
BH (60°-80°)	930.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	87.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1813.8	1813.8	1813.8	1813.8	1813.8	1813.8	1813.8	1813.8	1813.8	1813.8	1813.8
2.5°	1929.2	1930.7	1930.7	1924.4	1926.0	1930.7	1913.4	1875.4	1875.4	1869.1	1858.1
5°	2047.7	2039.8	2028.7	2030.3	2024.0	2024.0	2005.0	1968.7	1937.1	1924.4	1891.2
7.5°	2063.5	2071.4	2069.8	2088.7	2098.2	2098.2	2107.7	2077.7	2030.3	2000.3	1967.1
10°	2095.1	2074.5	2072.9	2117.2	2131.4	2164.6	2202.5	2186.7	2147.2	2104.5	2060.3
12.5°	2114.0	2126.7	2126.7	2148.8	2182.0	2230.9	2297.3	2327.3	2265.7	2221.5	2153.5
15°	2142.5	2125.1	2175.6	2194.6	2257.8	2292.6	2387.4	2464.8	2423.7	2370.0	2262.5
17.5°	2155.1	2144.0	2172.5	2207.2	2314.7	2366.8	2482.2	2589.6	2554.8	2520.1	2409.5
20°	2219.9	2218.3	2230.9	2259.4	2336.8	2439.5	2583.3	2731.8	2744.4	2681.2	2531.1
22.5°	2377.9	2357.3	2357.3	2346.3	2379.5	2485.3	2679.7	2885.1	2941.9	2867.7	2668.6
25°	2523.2	2551.7	2534.3	2483.7	2471.1	2526.4	2749.2	3047.8	3123.6	3054.1	2855.0
27.5°	2709.7	2719.2	2749.2	2681.2	2594.3	2611.7	2825.0	3139.4	3295.9	3202.6	2960.9
30°	2978.3	2960.9	2954.6	2878.7	2765.0	2741.3	2911.9	3273.7	3521.8	3390.7	3085.7
32.5°	3160.0	3202.6	3201.1	3096.8	2959.3	2907.2	3019.4	3400.1	3763.5	3641.9	3316.4
35°	3520.2	3564.5	3529.7	3376.4	3215.3	3111.0	3174.2	3564.5	4040.0	3945.2	3512.3
37.5°	3980.0	4084.3	4010.0	3727.2	3499.7	3385.9	3389.1	3743.0	4322.8	4245.4	3722.4
40°	4297.6	4438.2	4335.5	4070.0	3828.3	3720.9	3678.2	3954.7	4661.0	4578.8	4051.1
42.5°	4691.0	4807.9	4754.2	4491.9	4209.1	4117.4	4032.1	4308.6	5177.6	5139.7	4472.9
45°	5120.7	5176.0	5158.7	4992.8	4678.3	4646.7	4458.7	4774.7	5785.9	5801.7	5000.7
47.5°	5520.5	5550.5	5583.7	5463.6	5267.7	5294.5	4950.1	5274.0	6376.8	6481.1	5588.4
50°	5623.2	5725.9	5803.3	5883.9	5926.5	6108.2	5492.0	5887.0	7056.2	7258.5	6242.5
52.5°	5518.9	5511.0	5746.4	5999.2	6425.8	6806.6	6229.9	6648.6	7656.6	8056.4	6841.3
55°	5044.9	5029.1	5408.3	5743.3	6575.9	7195.3	7283.7	7662.9	8381.8	8901.6	7651.9
57.5°	4215.4	4117.4	4531.4	5081.2	6250.4	7237.9	8342.3	9168.7	9497.3	10089.8	8889.0
60°	2832.9	2791.8	3188.4	3844.1	5074.9	6632.8	8975.9	11053.6	11069.4	11736.1	10808.7
62.5°	1744.3	1752.2	2006.6	2498.0	3553.4	5258.2	8702.6	12559.3	12562.5	13230.8	12388.7
65°	1140.8	1145.5	1350.9	1622.6	2219.9	3566.0	7196.8	12677.8	13600.5	14221.5	13112.3
66°	1015.9	1017.5	1194.5	1415.7	1839.1	2918.2	6356.3	12369.7	13834.4	14352.6	13102.8
67.5°	856.4	876.9	1019.1	1189.7	1434.6	2096.6	5043.3	11478.6	13714.3	14169.3	12805.8
70°	669.9	681.0	793.2	967.0	1076.0	1213.4	2997.2	9356.7	12553.0	13290.9	11725.1
72.5°	537.2	546.7	632.0	785.3	873.7	799.5	1632.1	6789.2	9916.0	10702.8	9222.4
75°	453.5	455.0	496.1	617.8	718.9	600.4	869.0	4357.6	6362.6	6729.2	5650.0
77.5°	366.6	372.9	401.3	470.8	578.3	472.4	518.2	2441.1	3194.7	3221.6	2611.7
80°	298.6	301.8	319.2	342.9	440.8	349.2	350.8	1191.3	1369.8	1338.2	1061.8
82.5°	235.4	238.6	259.1	254.4	323.9	249.6	218.0	573.5	630.4	617.8	488.2
85°	132.7	132.7	203.8	203.8	205.4	158.0	132.7	270.2	333.4	311.3	229.1
87.5°	42.7	44.2	61.6	64.8	102.7	71.1	64.8	101.1	158.0	139.0	82.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1813.8	1813.8	1813.8	1813.8	1813.8	1813.8	1813.8	1813.8	1813.8	1813.8	1813.8
2.5°	1851.7	1826.5	1815.4	1779.1	1769.6	1745.9	1734.8	1720.6	1715.9	1695.3	1714.3
5°	1866.0	1858.1	1813.8	1768.0	1733.2	1717.4	1693.7	1662.1	1659.0	1630.5	1627.4
7.5°	1926.0	1899.1	1821.7	1772.7	1703.2	1663.7	1611.6	1595.8	1575.2	1565.8	1586.3
10°	2019.2	1951.3	1835.9	1712.7	1627.4	1580.0	1542.1	1531.0	1532.6	1526.3	1516.8
12.5°	2085.6	2020.8	1812.2	1662.1	1551.5	1505.7	1502.6	1513.6	1531.0	1523.1	1534.2
15°	2180.4	2058.7	1794.9	1578.4	1489.9	1477.3	1475.7	1508.9	1507.3	1507.3	1505.7
17.5°	2268.9	2096.6	1731.7	1505.7	1425.1	1434.6	1445.7	1444.1	1459.9	1466.2	1477.3
20°	2381.0	2140.9	1643.2	1433.0	1376.2	1373.0	1371.4	1373.0	1388.8	1398.3	1390.4
22.5°	2479.0	2150.4	1568.9	1363.5	1317.7	1305.1	1284.5	1305.1	1297.2	1300.3	1309.8
25°	2564.3	2151.9	1463.1	1311.4	1259.2	1230.8	1215.0	1213.4	1199.2	1197.6	1197.6
27.5°	2635.4	2098.2	1369.8	1238.7	1189.7	1162.9	1161.3	1143.9	1107.6	1083.9	1087.0
30°	2690.7	2057.1	1305.1	1175.5	1128.1	1123.4	1109.2	1069.7	1022.3	992.2	992.2
32.5°	2788.7	1975.0	1216.6	1110.7	1087.0	1080.7	1047.5	1012.8	968.5	940.1	935.4
35°	2861.4	1899.1	1158.1	1055.4	1044.4	1031.7	1003.3	965.4	952.7	946.4	951.2
37.5°	2943.5	1813.8	1087.0	1008.0	1019.1	995.4	962.2	944.8	989.1	978.0	982.8
40°	3074.7	1753.8	1017.5	979.6	990.7	963.8	921.1	914.8	970.1	930.6	921.1
42.5°	3314.8	1752.2	974.9	936.9	944.8	924.3	886.4	883.2	905.3	857.9	843.7
45°	3613.4	1807.5	943.3	905.3	899.0	895.9	883.2	869.0	850.0	788.4	772.6
47.5°	3970.5	1897.6	936.9	857.9	865.8	892.7	876.9	840.6	791.6	752.1	744.2
50°	4403.4	2084.0	921.1	823.2	837.4	880.1	867.4	816.9	772.6	747.3	742.6
52.5°	4882.2	2319.4	900.6	769.5	801.1	869.0	875.3	827.9	763.1	741.0	737.9
55°	5446.2	2667.0	876.9	711.0	758.4	857.9	875.3	796.3	750.5	750.5	747.3
57.5°	6560.1	3292.7	827.9	657.3	720.5	837.4	850.0	797.9	752.1	752.1	745.8
60°	8193.8	4269.1	734.7	616.2	684.1	809.0	831.1	774.2	734.7	744.2	742.6
62.5°	9472.0	4566.2	655.7	576.7	647.8	756.8	805.8	748.9	714.2	748.9	752.1
65°	9745.4	4266.0	575.1	534.0	597.2	706.3	769.5	712.6	684.1	752.1	755.2
66°	9647.4	4032.1	546.7	521.4	575.1	681.0	747.3	699.9	668.3	748.9	750.5
67.5°	9211.3	3681.4	515.1	494.5	545.1	644.6	722.1	682.6	643.1	739.4	725.2
70°	8263.3	3122.1	461.4	447.1	502.4	584.6	663.6	638.3	603.6	681.0	655.7
72.5°	6364.2	2494.8	404.5	406.1	453.5	523.0	605.1	587.8	557.7	597.2	581.4
75°	3875.7	1594.2	352.3	355.5	395.0	464.5	549.8	537.2	500.9	523.0	515.1
77.5°	1717.4	790.0	297.0	303.4	335.0	409.2	478.7	458.2	420.3	425.0	421.9
80°	666.8	374.5	241.7	249.6	270.2	327.1	396.6	377.6	344.4	338.1	335.0
82.5°	320.7	208.6	186.4	189.6	197.5	260.7	341.3	317.6	273.3	244.9	244.9
85°	161.2	129.6	131.1	120.1	131.1	177.0	230.7	192.8	159.6	142.2	145.4
87.5°	64.8	64.8	64.8	55.3	58.5	83.7	107.4	72.7	66.4	39.5	39.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)